

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Ye, et al.

Appl. No.: 10/755,854

Filed: January 13, 2004

For: Eosinophil-Derived Neurotoxin as a

Marker for Ovarian Cancer

Art Unit: to be assigned

Examiner: to be assigned

Atty. Dkt.: 7570/80962

Supplemental Information Disclosure Statement

Commissioner of Patents
U.S. Patent and Trademark Office
220 20th Street South
Customer Window, **MS Amendment**Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Sir:

Submitted herewith is a listing of documents known to Applicants and/or their attorney in compliance with the requirements of 37 C.F.R. § 1.56. Copies of the listed document are also enclosed with the exception of the United States patents.

Applicants also wish to make the Examiner aware of co-pending applications 09/948,094, filed September 7, 2001; 10/162,221, filed on June 5, 2002; and 10/869,027, filed on June 17, 2004.

Applicants do not waive any rights to appropriate action to establish patentability over any of the listed documents should they be applied as references against the claims of the present application. This statement should not be construed as a representation that more material information does not exist or that an exhaustive search of the relevant art has been made.



Consideration of the cited documents and making the same of record in the prosecution of the above-captioned application are respectfully requested.

Applicants do not believe any fees are due for the submission of this Information Disclosure Statement. However, the Commissioner is hereby authorized to charge any fee deficiency to our Deposit Account No. 06-1135 under Order No. 7570/80962.

Respectfully submitted,

FITCH, EVEN, TABIN & FLANNERY

Mulail A. Say Michael A. Sanzo Reg. No. 36,912

Attorney for Applicants

1801 K Street, N.W., Suite 401L Washington, DC 20006-1201

Phone: (202) 419-7013



Atty. Docket No.: 7570/80962

Appl. No.: 10/755,854

Applicant(s)

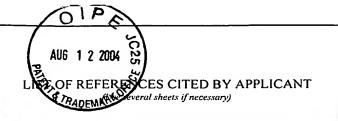
Ye, et al.

Filing Date: January 13, 2004

Group: to be assigned

U.S. PATENT DOCUM	1ENTS
-------------------	-------

			U.S. PA	TENT DOCUMENTS			
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A 1	5,604,106	Feb. 18, 1997	Liotta, et al.	435	7.23	May 18, 1993
	A 2	5,695,761	Dec. 9, 1997	Denhardt, et al.	424	184.1	Dec. 23, 1993
· · · · · ·	A 3	5,712,104	Jan. 27, 1998	Yamamoto	435	7.92	Jan. 6, 1997
	A 4	5,801,004	Sep. 1, 1998	Hudson, et al.	435	7.23	Dec. 23, 1996
	A 5	6,414,219 B1	Jul. 2, 2002	Denhardt, et al.	800	18	Jun. 30, 1999
	A 6	6,686,444 B2	Feb. 3, 2004	Ashkar	530	329	Aug. 21, 1997
	A 7	2002/0039753 A1	Apr. 4, 2002	Chai, et al.	435	7.23	Jan. 5, 2001
i	A 8	2002/0052308 A1	May 2, 2002	Rosen, et al.	514	1	Aug. 10, 2001
	A 9						
	A 10						
	A 11						
	A 12						
	A 13						
	A 14						
	A 15						
	A 16						
	A 17						
	A 18						
	A 19					<u> </u>	
· · · · · · · · · · · · · · · · · · ·	A 20						
	A 21						
	A 22						
	A 23						
	A 24						
	A 25						
	A 26						
	A 27						
Examiner				Date Considered			



Atty. Docket No.: 7570/80962

Appl. No.: 10/755,854

Applicant(s)

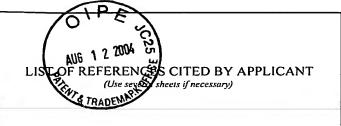
Ye, et al.

Filing Date: January 13, 2004

Group: to be assigned

FOREIGN	PATENT	DOCUM	JENTS

Examiner		Document	Date	Country	Class	Subclass	Abst./Trans.	
Initial		Number	Date	Country	Class	Subclass	Yes	No
	B 1					<u>.</u>		
	B 2							
	В 3							
	B 4							_
	B 5							
	В 6							
	В 7							
	B 8							ļ
	В 9							
	B 10							
	B 11			l I				
	B 12							
	B 13							
	B 14					(
	B 15							<u> </u>
	B 16							<u> </u>
	B 17							<u> </u>
	B 18					ļ.,		
	B 19							
_	B 20							
	B 21					ļ. <u></u>		
	B 22							
	B 23							
	B 24							
	B 25							
-	B 26							ļ
	B 27							
Examiner				Date Considered				



Atty. Docket No.: 7570/80962

Appl. No.: 10/755,854

Applicant(s)

Ye, et al.

Filing Date: January 13, 2004

Group: to be assigned

Examiner Initial		OTHER PRIOR ART (Includ	ing Author, Title, Date, Pertinent Pages, Etc.)			
	СІ	BAST, et al., "A Radioimmunoassay Using a Cancer," N. Engl. J. Med. 309:883-887 (1983	a Monoclonal Antibody to Monitor the Course of Epithelial Ovarian			
	C 2	BERTEAU, et al., "Prostasin mRNA to Dete 37:S119 (1999).	ct Prostate Cells in Blood of Cancer Patients," Clin. Chem. Lab. Med.			
	C 3	CHEN, et al., "Down-Regulation of Prostasin Serine Protease: A Potential Invasion Suppressor in Prostate Cancer," Prostate 48:93-103 (2001).				
	C 4	CHEN, et al., "Prostasin Serine Protease Inhibits Breast Cancer Invasiveness and Is Transcriptionally Regulated by Promoter DNA Methylation," Int. J. Cancer 97:323-329 (2002).				
	C 5	CHEUNG, et al., "Identify Metastasis-Associated Genes in Hepatocellular Carcinoma through Clonality Delineation for Multinodular Tumor," Cancer Res. 62:4711-4721 (2002).				
_	C 6	COOLEN, et al., "Elevation of Brain-Type C 1418 (1979).	Creatine Kinase in Serum from Patients with Carcinoma," Cancer 44:1414			
	C 7	CRAMER, et al., "Carotenoids, Antioxidants Cancer 94:128-134 (2001).	s and Ovarian Cancer Risk in Pre- and Postmenopausal Women," Int. J.			
	C 8	DALY, et al., "The Search for Predictive Patterns in Ovarian Cancer: Proteomics Meets Bioinformatics," Cancer Cell 1:111-112 (2002).				
	C 9	DENHARDT, et al., "Osteopontin: A Protein with Diverse Functions," FASEB J. 7:1475-1482 (1993).				
	C 10	DeRISI, et al., "Use of a cDNA Microarray to Analyse Gene Expression Patterns in Human Cancer," Nature Genetics 14:457-460 (1996).				
·	C 11	FISH, et al., "Changes in Serum Acute Phase platinum (CDDP) Infusion Therapy," Clinical	Proteins in Ovarian Cancer Patients Receiving Cis-Diamminedichloro- al Biochem. 17:39-41 (1984).			
	C 12	FISH, et al., "Serum Haptoglobin and α1-Acid Glycoprotein as Indicators of the Effectiveness of cis- Diamminedichloroplatinum (CDDP) in Ovarian Cancer Patients – a Preliminary Report," Eur. J. Cancer Clin. Oncol. 20:625-630 (1984).				
	C 13	GIACHELLI, et al., "Molecular and Cellular Biology of Osteopontin," Trends Cardiovasc. Med. 5:88-95 (1995).				
	C 14	GINGRICH, et al., "Metastatic Prostate Cancer in a Transgenic Mouse," Cancer Res. 56:4096-4102 (1996).				
	C 15	HARVEY, et al., "Cancer Cells Release a Covalent Complex Containing Disulfide-Linked Domains from Urinary Plasminogen Activator, Neural Cell Adhesion Molecule, and Haptoglobin α and β Chains," Arch. Biochem. Biophys. 345:289-298 (1997).				
	C 16	HEID, et al., "Real Time Quantitative PCR," Genome Res. 6:986-994 (1996).				
	C 17	HOOPER, et al., "Testisin, a New Human Serine Proteinase Expressed by Premeiotic Testicular Germ Cells and Lost in Testicular Germ Cell Tumors," Cancer Res. 59:3199-3205 (1999).				
	C 18	HOOPER, et al., "Localization, Expression and Genomic Structure of the Gene Encoding the Human Serine Protease Testisin," Biochimica et Biophysica Acta 1492:63-71 (2000).				
	C 19	KIBEL, et al., "Loss of Heterozygosity at 12P12-13 in Primary and Metastatic Prostate Adenocarcinoma," J. Urol. 164:192-196 (2000).				
Examiner			Date Considered			

		Atty. Docket No.: 7570/80962	Appl. No.: 10/755,854		
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)		Applicant(s) Ye, et al.			
		Filing Date: January 13, 2004	Group: to be assigned		
Examiner nitial	OTHER PRIOR ART (Incl	uding Author, Title, Date, Pertinent Pages, Etc.)			
C 20	KIEFER, et al., "The cDNA and Derived A (1989).	Amino Acid Sequence for Human Osteop	ontin," Nuc. Ac. Res. 17:3306		
C 21	KIM, et al., "Osteopontin as a Potential Diagnostic Biomarker for Ovarian Cancer," JAMA 287:1671-1679 (2002).				
C 22					
C 23	KO, et al., "Haptoglobin Typing and Quantitation in Normal Chinese Females and Gynecologic Cancer Patients," Chinese J. Microbiol. Immunol. 13:149-157 (1980) Abstract; Database Medline, Accession No. 81089629.				
C 24	KURTZ, et al., "Serum Creatine Kinase BB Isoenzyme as a Diagnostic Aid in Occult Small Cell Lung Cancer," Cancer 56:562-566 (1985).				
C 25	MILLS, et al., "Future for Ovarian Cancer Screening: Novel Markers From Emerging Technologies of Transcriptional Profiling and Proteomics," J. Natl. Cancer. Inst. 93:1437-1439 (2001).				
C 26	MOK, et al., "Prostasin, a Potential Serum Marker for Ovarian Cancer: Identification Through Microarray Technology," J. Natl. Cancer Inst. 93:1458-1464 (2001).				
C 27	MOK, et al., "Molecular Cloning of Differentially Expressed Genes in Human Epithelial Ovarian Cancer," Gynecologic Oncol. 52:247-252 (1994).				
C 28	MOK, et al., "SPARC, an Extracellular Matrix Protein with Tumor-Suppressing Activity in Human Ovarian Epithelial Cells," Oncogene 12:1895-1901 (1996).				
C 29	MÜELLER-PILLASCH, et al., "Cloning of a Gene Highly Overexpressed in Cancer Coding for a Novel KH-Domain Containing Protein," Oncogene 14:2729-2733 (1997).				
C 30	OLDBERG, et al., "Cloning and Sequence Analysis of Rat Bone Sialoprotein (Osteopontin) cDNA Reveals an Arg-Gly-Asp Cell-Binding Sequence," Proc. Natl. Acad. Sci. USA 83:8819-8823 (1986).				
C 31	OLDBERG, et al., "Identification of a Bone Sialoprotein Receptor in Osteosarcoma Cells," J. Biol. Chem. 263:19433-19436 (1988).				
C 32	PATARCA, et al., "Differential Induction of Interferon γ Gene Expression after Activation of CD4 ⁺ Cells by Conventional Antigen and Mls Superantigen," Proc. Natl. Acad. Sci. USA 88:2736-2739 (1991).				
C 33	PENG, et al., "Proteomics: The Move to Mixtures," J. Mass Spectrom. 36:1083-1091 (2001).				
C 34	PETRICOIN, et al., "Use of Proteomic Patterns in Serum to Identify Ovarian Cancer," Lancet 359:572-577 (2002).				
C 35 PIVA, et al., "Interleukin-6 Differentially Stimulates Haptoglobin Production by Pe Vitro: A Model for Endometrial-Peritoneal Interaction in Endometriosis," J. Clin. E (2001).					
C 36	REN, et al., "Reduced Lysyl Oxidase Mess Res. 58:1285-1290 (1998).	senger RNA Levels in Experimental and I	Human Prostate Cancer," Cancer		
C 37	SCHNEIDER, et al., "Osteopontin But Not Curatively Resected Non-Small Cell Lung				
C 38	SCHRIML, et al., "Tyramide Signal Ampli	(Carla (TCA) FIGH Annual And Mannia	DOD I I I I D I I TI		

Date Considered

Examiner

			Atty. Docket No.: 7370/80962	Appl. No.: 10/755,854		
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)			Applicant(s) Ye, et al.			
			Filing Date: January 13, 2004	Group: to be assigned		
Examiner Initial		OTHER PRIOR ART (Inclu	uding Author, Title, Date, Pertinent Pages, Etc.)			
	C 39	SCHUMMER, et al., "Comparative Hybrid Overexpressed in Ovarian Carcinomas," Go	dization of an Array of 21 500 Ovarian cDNA ene 238:375-385 (1999).	As for the Discovery of Genes		
	C 40	SENGER, et al., "Elevated Expression of Secreted Phosphoprotein I (Osteopontin, 2ar) as a Consequence of Neoplastic Transformation," Anticancer Res. 9:1291-1300 (1989).				
	C 41	SHARP, et al., "Tumor Cells Are the Source of Osteopontin and Bone Sialoprotein Expression in Human Breast Cancer," Lab. Investig. 79:869-877 (1999).				
	C 42					
	C 43	SMITH, et al., "Molecular Cloning of a Tumor Promoter-Inducible mRNA Found in JB6 Mouse Epidermal Cells: Induction Is Stable at High, but Not at Low, Cell Densities," J. Cell. Biochem. 34:13-22 (1987).				
- · · · -	C 44	SZALA, et al., "Molecular Cloning of cDNA for the Carcinoma-Associated Antigen GA733-2," Proc. Natl. Acad. Sci. USA 87:3542-3546 (1990).				
	C 45	THOMPSON, et al., "Increased Fucosylation and Other Carbohydrate Changes in Haptoglobin in Ovarian Cancer," Cancer Letters 66:43-48 (1992).				
	C 46	TUCK, et al., "Osteopontin Induces Increased Invasiveness and Plasminogen Activator Expression of Human Mammary Epithelial Cells," Oncogene 18:4237-4246 (1999).				
	C 47	VLAHOU, et al., "Development of a Novel Proteomic Approach for the Detection of Transitional Cell Carcinoma of the Bladder in Urine," Am. J. Pathol. 158:1491-1502 (2001).				
	C 48	WANG, et al., "Monitoring Gene Expression Profile Changes in Ovarian Carcinomas Using cDNA Microarray," Gene 229:101-108 (1999).				
	C 49	YE, et al., "Identification and Validation of Urinary Biomarkers for Early Stage of Ovarian Cancer by Multiple Proteomic Approaches," Proc. Am. Assoc. Cancer Res. 45:915 (abstract 3964 (2004)).				
14.3	C 50	YIU, et al., "Prostasin, a Potential Serum Marker for the Early Detection of Ovarian Cancer," Proceedings of the American Association for Cancer Research Annual 42:744 (2001).				
	C 51	YU, et al., "Prostasin Is a Novel Human Serine Proteinase from Seminal Fluid," J. Biol. Chem. 269:18843-18848 (1994).				
	C 52	Biol. Chem. 270:13483-13489 (1995).				
	C 53					
	C 54					
	C 55			· · · · · · · · · · · · · · · · · · ·		
	C 56					
	C 57					